

PTO-1449 REPRODUCED

INFORMATION DISCLOSURE CITATION
IN AN APPLICATION

February 12, 2001

(Use several sheets if necessary)

ATTORNEY DOCKET NO.
0050.1609-002APPLICATION NO.
09/614,326

APPLICANT

Jay M. Edelberg and Robert D. Rosenberg

FILING DATE
July 12, 2000GROUP
1632

U.S. PATENT DOCUMENTS

EXAM- INER INI- TIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB- CLASS	FILING DATE IF APPROPRIATE
	AA						
	AB						
	AC						
	AD						
	AE						
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	AH						
	AI						
	AJ						
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(343)	AL	WO 90/10471	20 Sep 1990	PCT				
(341)	AM	WO 97/17937	22 May 1997	PCT				
	AN							
	AO							
	AP							
	AQ							

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(343)	AR	Barnett, J. <i>et al.</i> , "Effects of Low-Density Lipoproteins and Mevinolin on Sympathetic Responsiveness in Cultured Chick Atrial Cells.", <i>J. Biol. Chem.</i> , 264:10779-86 (1989)
(341)	AS	Beau, S. <i>et al.</i> , "Relative Densities of Muscarinic Cholinergic and β -Adrenergic Receptors in the Canine Sinoatrial Node and Their Relation to Sites of Pacemaker Activity.", <i>Circ. Res.</i> , 77:957-963 (1995)
(341)	AT	Bertin, B. <i>et al.</i> , "Specific atrial overexpression of G protein coupled human β_1 adrenoceptors in transgenic mice.", <i>Cardiovasc. Res.</i> , 27:1606-12 (1993)

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Shanku Dhruv

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<i>BRD</i>	AU	Brodde, O., "β-Adrenergic receptors in failing human myocardium.", <i>Basic Res. Cardiol.</i> , 91 Suppl. 2:35-40 (1996)					
<i>BRD</i>	AV	Brown, A., "Regulation of heartbeat by G protein-coupled ion channels.", <i>Am. J. Physiol.</i> , 259:H1621-H1628 (1990)					
<i>BRD</i>	AW	Chung, F. <i>et al.</i> , "Cloning and sequence analysis of the human brain β-adrenergic receptor: Evolutionary relationship to rodent and avian β-receptors and porcine muscarinic receptors.", <i>FEBS Lett.</i> , 211:200-206 (1987)					
<i>BRD</i>	AX	Crisp, T., "Adrenergic Drugs.", <i>Bas. Pharm. Med.</i> , Chapter 8: 113-29					
<i>BRD</i>	AY	DiFrancesco, D., "Characterization of single pacemaker channels in cardiac sino-atrial node cells.", <i>Nature</i> , 324:470-3 (1986)					
<i>BRD</i>	AZ	Drazner, M. <i>et al.</i> , "Potentiation of β-Adrenergic Singaling by Adenoviral-mediated Gene Transfer in Adult Rabbit Ventricular Myocytes.", <i>J. Clin. Invest.</i> , 99:288-96 (1997)					
<i>BRD</i>	AR2	Drazner, M. <i>et al.</i> , "Potentiation of β-Adrenergic Signaling by Gene Transfer.", <i>Proc. Assoc. Am. Physicians</i> , 109:220-227 (1997)					

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1321)	AS2	Ellison, K. <i>et al.</i> , "Fusigenic Liposome-mediated DNA Transfer into Cardiac Myocytes.", <i>J. Mol. Cell. Cardiol.</i> , 28:1385-1399 (1996)					
1322)	AT2	Field, L., "Atrial natriuretic factor-SV40 T antigen transgenes produce tumors and cardiac arrhythmias in mice.", <i>Science</i> , 239:1029-33 (1988)					
1323)	AU2	Fulmer, R. <i>et al.</i> , "Transplantation of Cardiac Tissue into the Mouse Ear.", <i>Am. J. Anat.</i> , 113:273-286 (1963)					
1324)	AV2	Gal, D. <i>et al.</i> , "Direct Myocardial Transfection in Two Animal Models.", <i>Lab. Invest.</i> , 68:18-25 (1993)					
1325)	AW2	Gerhardt, M. <i>et al.</i> , "Acute Myocardial β -Adrenergic Receptor Dysfunction After Cardiopulmonary Bypass in Patients with Cardiac Valve Disease.", <i>Circulation</i> 98: II 275-281 (1998)					
1326)	AX2	Giordano, F. <i>et al.</i> , "Intracoronary gene transfer of fibroblast growth factor-5 increases blood flow and contractile function in an ischemic region of the heart.", <i>Nat. Med.</i> , 2:534-9 (1996)					
1327)	AY2	Golf, S. <i>et al.</i> , " β -adrenoceptor density and relative number of β -adrenocentor subtypes in biopsies from human right atrial, left ventricular, and right ventricular myocard.", <i>Cardiovasc. Res.</i> , 19:636-641 (1985)					
1328)	AZ2	Gustafson, T. <i>et al.</i> , "Thyroid hormone regulates expression of a transfected α -myosin heavy-chain fusion gene in fetal heart cells.", <i>Proc. Natl. Acad. Sci. U.S.A.</i> , 84:3122-6 (1987)					
1329)	AR3	Guth, B. and Dietze, T., " I_f current mediates β -adrenergic enhancement of heart rate but not contractility in vivo.", <i>Basic Res. Cardiol.</i> , 90:192-202 (1995)					
EXAMINER Charles D. Moore				DATE CONSIDERED 05/07/02			

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AS3	Hajjar, R. <i>et al.</i> , "Molecular aspects of adrenergic signal transduction in cardiac failure.", <i>J. Mol. Med.</i> , 76: 747-755 (1998)
AT3	Hardouin, S. <i>et al.</i> , " β -Adrenergic and muscarinic receptor mRNA accumulation in the sinoatrial node area of adult and senescent rat hearts.", <i>Mech. Ageing Dev.</i> , 100: 277-297 (1998)
AU3	Holmer, S., and Homey, C., "G Proteins in the Heart: A Redundant and Diverse Transmembrane Signaling Network.", <i>Circulation</i> , 84:1891-1902 (1991)
AV3	Inglese, Jr. <i>et al.</i> , "Structure and Mechanism of the G Protein-coupled Receptor Kinases.", <i>J. Biol. Chem.</i> , 268:23735-23738 (1993)
AW3	Iwaki, K. <i>et al.</i> , " α - and β -Adrenergic Stimulation Induces Distinct Patterns of Immediate Early Gene Expression in Neonatal Rat Myocardial Cells.", <i>J. Biol. Chem.</i> , 265:13809-17 (1990)
AX3	Johns, D. <i>et al.</i> , "Adenovirus-mediated Expression of a Voltage-gated Potassium Channel In Vitro (Rat Cardiac Myocytes) and In Vivo (Rat Liver).", <i>J. Clin. Invest.</i> , 96:1152-8 (1995)
AY3	Kass-Eisler, A. <i>et al.</i> , "Quantitative determination of adenovirus-mediated gene delivery to rat cardiac myocytes <i>in vitro</i> and <i>in vivo</i> .", <i>Proc. Natl. Acad. Sci. U.S.A.</i> , 90:11498-502 (1993)
AZ3	Kitsis, R. <i>et al.</i> , "Hormonal modulation of a gene injected into rat heart <i>in vivo</i> .", <i>Proc. Natl. Acad. Sci. U.S.A.</i> , 88:4138-42 (1991)
AR4	Kitsis, R and Leinwand, L., "Discordance between gene regulation <i>in vitro</i> and <i>in vivo</i> .", <i>Gene Expr.</i> , 2:313-8 (1992)

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		OIP CANCELLED MAR 07 2001 PATENT & TRADEMARK OFFICE		MAR 08 2001 PATENT & TRADEMARK OFFICE			

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AS4	Koh, G. <i>et al.</i> , "Targeted Expression of Transforming Growth Factor- β 1 in Intracardiac Grafts Promotes Vascular Endothelial Cell DNA Synthesis.", <i>J. Clin. Invest.</i> , 95:114-121 (1995)
AT4	Koh, G. <i>et al.</i> , "Stable Fetal Cardiomyocyte Grafts in the Hearts of Dystrophic Mice and Dogs.", <i>J. Clin. Invest.</i> , 96: 2034-2042 (1995)
AU4	Kohout, T. <i>et al.</i> , "Novel Adenovirus Component System That Transfects Cultured Cardiac Cells with High Efficiency.", <i>Circ. Resp.</i> , 78:971-7 (1996)
AV4	Labhasetwar <i>et al.</i> , "A DNA Controlled-Release Coating for Gene Transfer: Transfection in Skeletal and Cardiac Muscle.", <i>J. Pharm. Sci.</i> , 87:1347-1350 (1998)
AW4	Lapointe, M. <i>et al.</i> , "Upstream Sequences Confer Atrial-specific Expression on the Human Atrial Natriuretic Factor Gene.", <i>J. Biol. Chem.</i> , 263:9075-9078 (1988)
AX4	Lee, J. <i>et al.</i> , "Cardiac and Pulmonary Replacement: Cardiac Gene Transfer by Intracoronary Infusion of Adenovirus Vector-Mediated Reporter Gene in the Transplanted Mouse heart.", <i>J Thorac. Cardiovasc. Surg.</i> , 111:246-52 (1996)
AY4	Lefkowitz, R. and Caron M., "Adrenergic Receptors: Models for the Study of Receptors Coupled to Guanine Nucleotide Regulatory Proteins.", <i>J. Biol. Chem.</i> , 263:4993-6 (1988)
AZ4	Leor, J. <i>et al.</i> , "Transplantation of Fetal Myocardial Tissue Into the Infarcted Myocardium of Rat.", <i>Circulation</i> , 94:11332-11336 (1996)
AR5	Lohse, M. <i>et al.</i> , "Mechanisms of β -adrenergic receptor desensitization: from molecular biology to heart failure.", <i>Basic Res. Cardiol.</i> , 91:29-34 (1996)
AS5	Mansier, P. <i>et al.</i> , "Decreased heart rate variability in transgenic mice overexpressing atrial β_1 -adrenoceptors.", <i>Am. Phys. Soc.</i> , 96:H1465-H72 (1996)

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B7D	AT5	Milano, C. <i>et al.</i> , "Enhanced Myocardial Function in Transgenic Mice Overexpressing the β_2 -Adrenergic Receptor.", <i>Science</i> , 264:582-6 (1994)				
B7D	AU5	Molenaar, P. <i>et al.</i> , "Function, Characterization and Autoradiographic Localization and Quantification of β -Adrenoceptors in Cardiac Tissues.", <i>Clin. Exp. Pharmacol. Physiol.</i> , 16:529-533 (1989)				
B7D	AV5	Moxham, C. <i>et al.</i> , "Mammalian β_1 - and β_2 - Adrenergic Receptors: Immunological and Structural Comparisons.", <i>J. Biol. Chem.</i> , 261: 14562-14570 (1986)				
B7D	AW5	Pennock, G. <i>et al.</i> , "Identification of Simple Substituted Phenols with Thyromimetic Activity: Cardiac Effects on 3,5-Diiodo-4-Hydroxyphenylpropionic Acid ¹ .", <i>J. Pharmacol. Exp. Ther.</i> , 268:216-23 (1994)				
B7D	AX5	Rossi, M., "Chronic Hemodynamic Unloading Regulates the Morphologic Development of Newborn Mouse Hearts Transplanted into the Ear of Isogenic Adult Mice.", <i>Am. J. Pathol.</i> , 14:183-91 (1992)				
B7D	AY5	Saito, K. <i>et al.</i> , "Characterization of β_1 - and β_2 -adrenoceptor subtypes in the rat sinoatrial node and stellate ganglia by quantitative autoradiography.", <i>Neurosci. Lett.</i> , 96:35-41 (1989)				
B7D	AZ5	Savarese, T., and Fraser, C., " <i>In vitro</i> mutagenesis and the search for structure-function relationships among G protein-coupled receptors.", <i>Biochem. J.</i> , 283:1-19 (1992)				
B7D	AR6	Selye, H. <i>et al.</i> , "Simple Techniques for the Surgical Occlusion of Coronary Vessels in the Rat.", <i>Angiology</i> , 11:398-401 (1960)				
B7D	AS6	Sen, A. <i>et al.</i> , "Inhibition of the Release of Arachidonic Acid Prevents the Development of Sarcolemmal Membrane Defects in Cultured Rat Myocardial Cells during Adenosine Triphosphate Depletion.", <i>J. Clin. Invest.</i> , 82:1333-8 (1988)				

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